

when unripe is quite astringent. Fruit in clusters of 10 to 40. Near Manila the fruit ripens from May 15 to June 15." (*Piper*.)

Distribution.—Found throughout India and Ceylon and extends through the Malay Archipelago to Australia. It also occurs under cultivation in the West Indies.

31572 to 31576.

From Costa Rica. Presented by Mr. Carlos Wercklé, San Jose, Costa Rica. Received August 4, 1911.

Cuttings of the following; quoted notes by Mr. Wercklé:

31572 and 31573. MANGIFERA INDICA L. **Mango.**

31572. "*Gran cazique* (Great Chief). Fruit very large; crimson and violet in color; few fibers; best quality; very fertile."

31573. "Fruit very large and beautiful; carmine and violet in color; solid, few fibers, much meat; best quality; very fertile."

31574 to 31576. ANNONA sp. **Annona.**

"From San Francisco, Nicaragua. Fruit delicious. Trees bear the second year. These cuttings are from three differently shaped trees. No. 31574 is a seedling, and is considered the best."

31577 to 31608.

From Philippine Islands. Received through Mr. C. V. Piper, of the Bureau of Plant Industry, July 26, 1911.

Seeds of the following; notes by Mr. Piper:

31577. BRYONOPSIS LACINIOSA (L.) Naudin.

"From Davao, May 14, 1911. A slender, cucurbitaceous vine with pretty leaves. Perhaps of ornamental value. Fruits size and shape of a pecan, yellow."

Distribution.—Throughout the tropical regions of Africa, Asia, the Malay Archipelago, and Australia.

31578. CAJAN INDICUM Spreng. **Pigeon-pea.**

"Purchased in the market at Jaro, Panay, May 3, 1911. The speckled seeds are probably hybrids between the black and the white."

31579. CLERODENDRUM CUMINGIANUM Schauer.

"From La Carlota, Negros, May 1, 1911. A luxuriant, herbaceous plant with large, velvety cordate leaves. Panicle purple, remaining so in age."

31580. CLERODENDRUM INTERMEDIUM Chamisso.

"From La Carlota, Negros. A beautiful, luxuriant herb growing 6 to 10 feet tall, with large, opposite, cordate, somewhat dentate, leaves. Panicle large, scarlet, the calyx and peduncles remaining so for a long time. Should make a fine tropical annual plant."

Distribution.—Known only from the Philippines.

31581. CROTALARIA SALTIANA Andrews 1811.

(*Crotalaria striata* Schrank 1828.)

"From Iloilo, May 6, 1911. A half-shrubby bush, 3 to 6 feet high."

Distribution.—Throughout tropical and southern Africa and in tropical Asia and South America.

31582. GOSSYPIUM sp. **Kidney cotton.**

"A variety found on the island of Marinduque. A company testing it has 12 acres planted and has high hopes of it. Apparently a form of *Gossypium braziliensis*. Prof. Conner, of the Manila Bureau of Agriculture, says they have obtained the same sort from various islands of the Philippines."